Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1-50. (canceled)
- 51. (Previously presented) An image forming apparatus comprising:

heat-generating member that is heated most by the magnetization coil.

- a heat-generating member;
- a pressure member pressed against the heat-generating member;
- a magnetization coil for heating the heat-generating member through electromagnetic induction;

an inverter circuit for supplying a high-frequency current to the magnetization coil;
a control unit for controlling an operation of the inverter circuit; and
a temperature sensor for detecting a temperature of the heat-generating member,
wherein both the temperature sensor and a nip portion formed between the heatgenerating member and the pressure member are arranged at a portion other than a portion of the

- 52. (Previously presented) The image forming apparatus according to claim 51, wherein the temperature sensor is positioned in the vicinity of the nip portion formed between the heat-
- generating member and the pressure member.
- 53. (New) The image forming apparatus according to claim 51, wherein the temperature sensor is positioned at a portion in which the heat-generating member and the pressure member

oppose each other and on a heat-generating member side with respect to a recording material fed to the nip portion formed between the heat-generating member and the pressure member.

- 54. (Previously presented) The image forming apparatus according to claim 51, wherein the temperature sensor is provided at a portion on an upstream side from the nip portion formed between the heat-generating member and the pressure member in a direction in which a recording material is fed.
- 55. (Previously presented) The image forming apparatus according to claim 51, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating member.
- 56. (Previously presented) An image forming apparatus comprising:
 - a heat-generating member;
 - a pressure member pressed against the heat-generating member;
- a magnetization coil for heating the heat-generating member through electromagnetic induction;
 - an inverter circuit for supplying a high-frequency current to the magnetization coil;
 - a control unit for controlling an operation of the inverter circuit; and
 - a temperature sensor for detecting a temperature of the heat-generating member,

wherein a portion of the heat-generating member that is heated most by the magnetization coil, the temperature sensor, a nip portion formed between the heat-generating member and the pressure member are at positions different from one another.

- 57. (Previously presented) The image forming apparatus according to claim 56, wherein the temperature sensor is positioned in the vicinity of the nip portion formed between the heat-generating member and the pressure member.
- 58. (Previously presented) The image forming apparatus according to claim 56, wherein the temperature sensor is positioned at a portion in which the heat-generating member and the pressure member oppose each other and on a heat-generating member side with respect to a recording material fed to the nip portion formed between the heat-generating member and the pressure member.
- 59. (Previously presented) The image forming apparatus according to claim 56, wherein the temperature sensor is provided at a portion on an upstream side from the nip portion formed between the heat-generating member and the pressure member in a direction in which a recording material is fed.
- 60. (Previously presented) The image forming apparatus according to claim 56, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating member.
- 61. (Previously presented) An image forming apparatus comprising:
 - a rotatable heat-generating body;
 - a pressure member pressed against a portion of the heat-generating body;

a magnetization coil for heating the heat-generating body through electromagnetic induction;

an inverter circuit for supplying a high-frequency current to the magnetization coil; a control unit for controlling an operation of the inverter circuit; and a temperature sensor for detecting a temperature of the heat-generating body,

wherein a portion of the heat-generating body that is heated most by the magnetization coil is on an upstream side from a nip portion formed between the heat-generating body and the pressure member in a rotating direction of the heat-generating body, and the temperature sensor is arranged on a downstream side from the nip portion in the rotating direction of the heat-generating body.

- 62. (Previously presented) The image forming apparatus according to claim 61, wherein the heat-generating body comprises a fixing belt, and the temperature sensor is arranged on a side of a rear surface of the fixing belt.
- 63. (Previously presented) The image forming apparatus according to claim 61, wherein the heat-generating body comprises a heat-generating roller, a fixing roller pressed against the pressure member, and a fixing belt suspended between the heat-generating roller and the fixing roller.
- 64. (Previously presented) The image forming apparatus according to claim 61, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating body.

65. (Previously presented) An image forming apparatus comprising:

a rotatable heat-generating body;

a pressure member pressed against a portion of the heat-generating body;

a magnetization coil for heating the heat-generating body through electromagnetic induction;

an inverter circuit for supplying a high-frequency current to the magnetization coil; a control unit for controlling an operation of the inverter circuit; and a temperature sensor for detecting a temperature of the heat-generating body,

wherein a portion of the heat-generating body that is heated most by the magnetization coil is on either an upstream side or a down stream side from a nip portion formed between the heat-generating body and the pressure member in a rotating direction of the heat-generating body, and the temperature sensor is positioned on a side different from the side on which the portion of the heat-generating body that is heated most is provided.

- 66. (Previously presented) The image forming apparatus according to claim 65, wherein the heat-generating body comprises a fixing belt, and the temperature sensor is positioned on a side of a rear surface of the fixing belt.
- 67. (Previously presented) The image forming apparatus according to claim 65, wherein the heat-generating body comprises a heat-generating roller, a fixing roller pressed against the pressure member, and a fixing belt suspended between the heat-generating roller and the fixing roller.

- 68. (Previously presented) The image forming apparatus according to claim 65, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating body.
- 69. (Previously presented) An image forming apparatus comprising: a rotatable heat-generating body;
 - a pressure member pressed against a portion of the heat-generating body;
- a magnetization coil for heating the heat-generating body through electromagnetic induction;

an inverter circuit for supplying a high-frequency current to the magnetization coil; a control unit for controlling an operation of the inverter circuit; and

a temperature sensor for detecting a temperature of the heat-generating body,

wherein a portion of the heat-generating body that is heated most by the magnetization coil and the temperature sensor are at different positions on an upstream side from a nip portion formed between the heat-generating body and the pressure member in a rotating direction of the heat-generating body.

70. (Previously presented) The image forming apparatus according to claim 69, wherein the heat-generating body comprises a fixing belt, and the temperature sensor is arranged on a side of a rear surface of the fixing belt.

- 71. (Previously presented) The image forming apparatus according to claim 69, wherein the heat-generating body comprises a heat-generating roller, a fixing roller pressed against the pressure member, and a fixing belt suspended between the heat-generating roller and the fixing roller.
- 72. (Previously presented) The image forming apparatus according to claim 69, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating body.
- 73. (Previously presented) An image forming apparatus comprising:
 - a rotatable heat-generating body;
 - a pressure member pressed against a portion of the heat-generating body;
- a magnetization coil for heating the heat-generating body through electromagnetic induction;
 - an inverter circuit for supplying a high-frequency current to the magnetization coil;
 - a control unit for controlling an operation of the inverter circuit; and
 - a temperature sensor for detecting a temperature of the heat-generating body,

wherein a portion of the heat-generating body that is heated most by the magnetization coil and the temperature sensor are at different positions on either an upstream side or a down stream side from a nip portion formed between the heat-generating body and the pressure member in a rotating direction of the heat-generating body.

- 74. (Previously presented) The image forming apparatus according to claim 73, wherein the heat-generating body comprises a fixing belt, and the temperature sensor is arranged on a side of a rear surface of the fixing belt.
- 75. (Previously presented) The image forming apparatus according to claim 73, wherein the heat-generating body comprises a heat-generating roller, a fixing roller pressed against the pressure member, and a fixing belt suspended between the heat-generating roller and the fixing roller.
- 76. (Previously presented) The image forming apparatus according to claim 73, wherein the magnetization coil is arranged in opposition to an outer peripheral surface of the heat-generating body.